BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains opp to Chairman Santosh House Road in Ramachandrapura in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.**

								Estimate Cost:	1960000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-2 : Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3 **Page No. 152 / Item No. 19.2/ PWD SR 2013-14**	Cum							
	For CC Drain								
			1	235.00	1.40	0.90	296.10		
							296.10	**90.72**	**26862.00**
	Basic Rate	84.00							
	Area Weightage @8%	6.72							
	Total	**90.72**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix M7.5 with OPC cement @ 180 Kgs** using **40mm** and down size graded granite metal, corse aggregates @ 0.85 cum and fine aggregtes @ 0.58cum machine mixed, concrete laid in layers not exceeding 15 cms thick, well compacted, **in foundation and plinth**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 **Page No. 12 / Item No. 4.3 PWD SR - 2013-14**	Cum							
	For CC Drain								
			1	235.00	1.20	0.15	42.30		
							42.30	4290.84	**181503.00**
	Basic Rate	3973.00							
	Area Weightage @ 8%	317.84							
	Total	**4290.84**							
3	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No.17 / Item No. 4.31 PWD SR - 2013-14**	Sqm							
	CC Drain		1x4	235.00		0.60	564.00		
			1	42.00		0.60	100.80		
							664.80	271.08	**180214.00**
	Basic Rate	251.00							
	Area Weightage @ 8%	20.08							
	Total	**271.08**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
4	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @ 0.459 cum wuth superplastisier @ 3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, wall** (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.6 **Page No. 13 / ITem No. 4.11 PWD SR - 2013-14**	Cum							
	Bottom		1	235.00	1.20	0.15	42.30		
	Side Walls		1x2	235.00	0.15	0.60	42.30		
			1	42.00	0.90	0.10	7.56		
							92.16	5639.76	**519760.00**
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	**5639.76**							
5	KSRB 4.9.2: Providing **T.M.T steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **Page No. 19/ Item No. 4.46.2 PWD SR 2013-14 TMT Bars Fe 500**	Qntl	0.71						
			0.70	92.16			64.51		
							64.51	7450.92	**480674.00**
	Basic Rate	6899.00							
	Area Weightage 8%	551.92					65.43		487541.0
	Total	**7450.92**							
6	KSRRB 300-45: Scarifying stone metal crust 50mm to 100mm thick with pick axes along with premix carpet/surface dressing and stacking of old serviceable materials within a lead of 100 meters by manual means including cost of all labour charges complete as per specifications. MORTH chapter 3, **No. 158 / Item No. 19.51/ PWD SR 2013-14**	Sqm							
			1	235.00	4.50		1057.50		
							1057.50	40.50	**42829.00**
	Basic Rate	37.50							
	Area Weightage @ 8%	3.00							
	Total	**40.50**							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
7	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **(P.170 / I.20.18) PWD SR - 2013-14.**	Cum							
			1	235.00	4.50	0.15	158.63		
							158.63	1121.04	**177825.00**
	Basic Rate	1038.00							
	Area Weightage @ 8%	83.04							
	Total	**1121.04**							
8	KSRRB 500-1.1 : Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **(P.175 / I.21.1) PWDSR 2013-14**	Sqm							
			1	235.00	4.30		1010.50		
							1010.50	10.53	**10641.00**
	Basic Rate	9.75							
	Area Weightage @ 8%	0.78							
	Total	**10.53**							
9	KSRRB M500-6: Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. MORTH specification NO. 502, **Page No. 175 / Item No. 21.6/ PWD SR 2013-14**	Sqm							
			Qty Vide Item No. 8				1010.50		
							1010.50	44.28	**44745.00**
	Basic Rate	41.00							
	Area Weightage @ 8%	3.28							
	Total	**44.28**							
10	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. **With 80/100 grade bitumen, No. 178 / Item No. 21.20.1/ PWD SR 2013-14**	Cum							
			1	235.00	4.30	0.025	25.26		
							25.26	9631.44	**243314.00**

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	8918.00							
	Area Weightage @ 8%	713.44							
	Total	**9631.44**							
11	KSRRB M800-13: Road marking with hot applied thermoplastic compound with reflect rising glass beads on bituminous surface- providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface to level, uniform and free from streaks and holes complete as per specifications. MORTH specification No. 803, **No. 197 / Item No. 24.15 PWD SR 2013-14**	Sqm							
	Road Sides		2	235.00	0.10		47.00		
	Center Line		78	1.50	0.10		11.70		
							58.70	471.96	27704.00
	Basic Rate	437.00							
	Area Weightage @ 8%	34.96							
	Total	**471.96**							
12	Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km (Page No.123)	Cum							
							Vide Item No. 1	296.10	72.71	21528.00
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne / kg for 2X1.28X2.00=5.12	5.12							
	Add loading and unloading Vide item no.17.1 P.no.141	62.20							
		67.32							
	Area Weightage @ 8%	5.39							
	Total	**72.71**							
13	Miscellaneous and other Charges	L/S							2401.00
								Total	**1960000.00**

(Rs. Ninteen Lakhs Sixty Thousand Only)

Technical Sanction for Rs. Rs = 19.60 Lakhs
Rs. Nineteen Lakh Sixty thousand
P-1771
EE No 172/13-14
Registered as EE ( ) Dated Subject
Project to conditions contained in enclosed memo
No: 172/13-14
29-10-13
AEE EE (BTP.Div.)

ADMINISTRATIVELY SANCTIONED FOR Rs. 19.60 Lakhs
Rupees Nineteen Lakhs Sixty thousand only
Under P-1771
Registered as EE ( ) dated 29....
Project to conditions stipulated in
enclosed memo EE ( ) JE(Civil)386/13-14
Dt 30/10/13
Dated Rs. 19.60 Lakhs

Joint Commissioner (Yelahanka Zone) BBMP, Bengaluru-92
30/10/13.

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2013-14.
3 This work included under 2013-14 POW Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

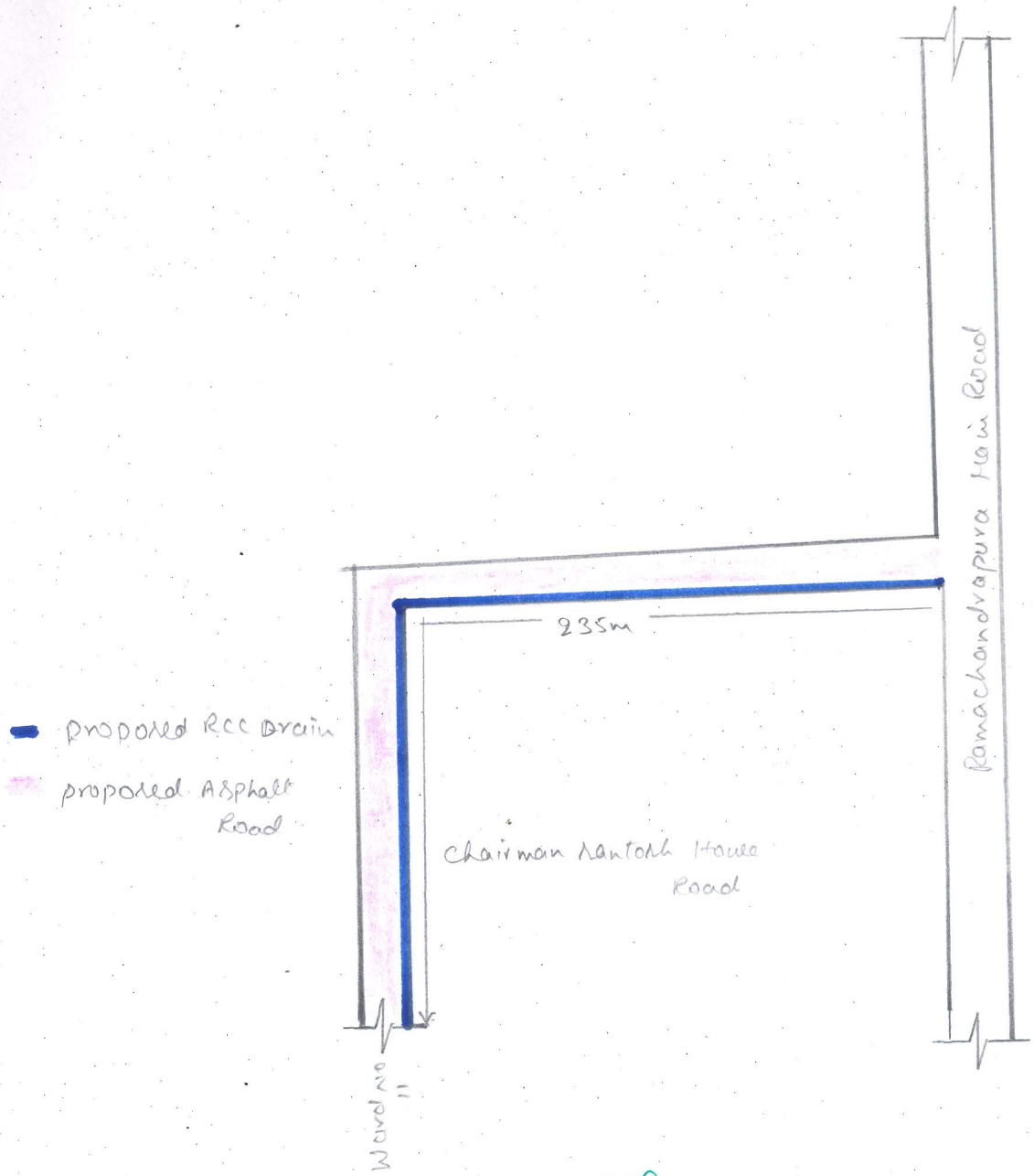
Assistant Engineer

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

(4)

Sketch for Improvements to Roads and Drains opp to Chairman Santosh House Road in Ramachandrapura in Ward No. 10 (Doddabommasandra), Vidyaranyapura Sub Division.



Zadhav
AE

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97